

Patent Claims

1. An arrangement for measuring a pressure in a fluid or gaseous medium, comprising:

- a base plate,
- at least one pressure sensor, which is connected to the base plate, and
- a counterplate, on which the base plate with the pressure sensor or sensors can be mounted, and which has drilled holes through which pressure can be applied to the pressure sensor or sensors,

wherein precisely one pressure sensor has a connecting element which projects, in the mounted state, into one of the drilled holes in the counterplate.

2. The arrangement as claimed in claim 1, wherein a sealing element is provided on the connecting element, in the region which is located in the drilled hole in the counterplate after mounting.

3. The arrangement as claimed in claim 1, wherein at least one further electronic component is arranged on the base plate.

4. The arrangement as claimed in claim 3, wherein at least parts of a control circuit for a motor vehicle transmission are arranged on the base plate.

5. The arrangement as claimed in claim 1, comprising a centering pin which is pressed into the base plate or the counterplate to a form fit, and is introduced into a guide hole of the respective other plate.

6. The arrangement as claimed in claim 5, wherein the guide hole is embodied as an elongated hole.

7. The arrangement as claimed in claim 1, wherein the pressure sensor is a piezo-electric sensor.
8. The arrangement as claimed in claim 1, wherein the base plate is composed of a metal or of plastic.
9. The arrangement as claimed in claim 7, wherein the piezoelectric sensor is arranged on a carrier.
10. The arrangement as claimed in claim 9, wherein the carrier is firmly connected to the base plate by bonding, soldering, or welding.
11. The arrangement as claimed in claim 3, wherein the further electronic component is an amplifier.

12. A method for measuring a pressure in a fluid or gaseous medium, comprising the steps of:

- connecting at least one pressure sensor to a base plate,
- mounting a counterplate on the base plate with the pressure sensor or sensors, wherein the counterplate comprises at least one drilled hole into which a connecting element of precisely one pressure sensor projects, and
- applying a pressure through said drilled hole to the pressure sensor or sensors.

13. The method as claimed in claim 12, further comprising the step of sealing the connecting element, in the region which is located in the drilled hole in the counterplate.

14. The method as claimed in claim 12, further comprising the step of aligning the base plate and the counterplate through a centering pin which is pressed into the base plate or the counterplate to a form fit, and is introduced into a guide hole of the respective other plate.

15. The method as claimed in claim 14, wherein the guide hole is embodied as an elongated hole.